

REPORT OF THE MEDICAL OFFICER OF HEALTH
FOR THE YEAR ENDING DECEMBER, 1902.

GENTLEMEN,

I have the honour of submitting to you my Sixth Annual Report.

POPULATION.

The population in the Wolstanton Rural District, according to the census of 1901, was 36,970, and estimated to the middle of 1902, amounted to 37,474. The acreage of the district is 10,392.

BIRTHS.

The births registered during the year numbered 1,440. Of these 692 were males and 748 were females, and the total represents an annual rate of increase of 38.4 per 1,000 living. Compared with the year 1901, the births show an increase of 34, the difference in the birth rate being 1.34.

DEATHS.

637 deaths were registered in the district during the year. Of these 72 were those of persons not belonging to the district, but who died in the public institutions in the district. 3 deaths occurred in public institutions outside the district of people who resided in the district. The total deaths of people belong to the district numbered 568, giving an annual rate of mortality of 15.4 per 1000 of the estimated population. When compared with the year 1901, there is a decrease in the number of deaths by 146, and the difference in the death rate is 3.56.

INFANTILE MORTALITY.

The number of deaths in infants under one year was 194, giving the infantile mortality rate of 134·72 per 1000 born. This is a decrease of 25·98 per 1000 on the rate recorded for the preceding year.

UNCERTIFIED DEATHS.

18 deaths occurred in persons not attended by a medical man. These deaths were recorded as “not certified.”

The supposed causes of death were as follows :—

Convulsions	11
Debility	1
Measles	1
Heart Disease	3
Apoplexy	1
Premature Birth	1
			<hr/>
			18



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The following table will show the number of deaths in each year for the last ten years from the chief Zymotic diseases, as well as the various death rates.

ZYMOTIC DISEASES, ETC.—		1893	1894	1895	1896	1897	1898	1899	1900	1901	1902
Smallpox	...	...	3	0	0	0	0	0	0	0	0
Measles	...	...	37	0	8	38	61	0	63	6	13
Scarlet Fever	...	...	8	10	9	7	18	17	23	7	2
Diphtheria	...	...	3	9	5	8	8	10	40	18	7
Whooping Cough	...	...	1	14	11	11	9	8	6	14	2
Fevers of a continued character	} Typhus	...	0	0	6	0	0	0	0	0	0
		...	9	11	4	5	11	13	16	5	6
		...	2	0	0	0	0	0	0	0	0
Diarrhoea	...	...	27	16	25	31	37	44	26	30	12
Deaths from Zymotic diseases	...	...	90	60	62	88	108	102	148	89	48
Total Deaths for each year	...	...	646	584	659	593	709	698	720	714	568
Death-rate from Zymotic diseases	...	...	2.8	1.8	1.91	2.5	3.1	2.9	4.3	1.6	1.2
General Death-rate	...	...	20.1	18.1	20.3	17.3	20.17	20.2	20.9	18.7	15.14
Death-rate of Infants under one	...	...	131	141	189	157	184	181.5	162.2	160.7	134.72

INFECTIOUS DISEASES.

I am very pleased indeed to state that infectious disease has been very much less prevalent this year than in the previous year, 157 cases having been notified as compared with 270 during the previous year. This is the lowest number notified for over ten years.

SCARLET FEVER :—This disease has been very much less prevalent than in the previous year. 35 cases were notified as compared with 102 during the previous year. Of these cases 1 was able to remove 10 to the Sanatorium.

The cases occurred as follows :—

Goldenhill	7	Wolstanton	7
Chell	0	Chesterton	0
Newchapel	0	Silverdale	8
Milton	11	Sanatorium	2

The cases at the Sanatorium were those of two of the nursing staff who contracted the disease in the discharge of their duties. The cases as a whole were of a mild character, only 2 proving fatal or 5·7 per cent. In all cases thorough isolation and disinfection was carried out.

ENTERIC FEVER :—This disease has also been less prevalent than in the previous year. 34 cases have been notified as compared with 43 during the previous year. The cases occurred as follows :—

Goldenhill	10	Wolstanton	9
Chell	0	Chesterton	5
Newchapel	1	Silverdale	4
Milton	3	Workhouse	2

Of the total number of cases notified 6 proved fatal, or 18·2 per cent. I was able to remove 12 cases to the Sanatorium.

MEMBRANOUS CROUP :—No cases of this disease have been notified during the year.

ERYSIPELAS :—31 cases of Erysipelas have been notified during the year as compared with 42 during the previous year. 3 of the cases proved fatal, or 9·6 per cent.

The cases occurred as follows :—

Goldenhill	3	Wolstanton	5
Chell	2	Chesterton	5
Newchapel	2	Silverdale	11
Milton	3	Workhouse	0

DIPHTHERIA :—50 cases of Diphtheria were notified during the year as compared with 78 during the previous year. Of the cases notified 4 were removed to the Sanatorium. I should have liked more cases to be removed, but owing to lack of accommodation I was unable to do so.

The cases occurred as follows :—

Goldenhill	9	Wolstanton	7
Chell	5	Chesterton	1
Newchapel	9	Silverdale	0
Milton	18	Sanatorium	1

7 cases proved fatal, or 14· per cent. Antitoxin has been more freely used this year than in previous years, but I hope to see it more freely used in the next. I should suggest to the Council the advisability of providing the Antitoxin free of charge for such cases who from their circumstances were unable to provide it themselves.

In all cases where the disease occurred the houses were thoroughly disinfected.

MEASLES :—This disease has been more prevalent than in the previous year. 13 deaths occurred from measles and complications—chiefly pneumonia—as compared with 6 during the previous year. In some parts of the district the disease appeared in Epidemic form when it was considered advisable to close the Schools for a few weeks.

SMALLPOX :—One case of Smallpox was notified during the year. This is the first case in the district since 1894. The case occurred at Wolstanton. Immediately on the case being notified, along with the Inspector I visited the case. The case was one of confluent smallpox, which I regret to say had been ill for some days previous to medical aid being called in. The patient was removed to the Bradwell Sanatorium as soon as possible. The inmates of the house were re-vaccinated, and a strict quarantine of 14 days imposed. The bedding, carpets, etc., were destroyed and the house thoroughly disinfected. I am glad to state that no more cases occurred, and also that the patient affected recovered.

No cases of Typhus Fever, Cholera, Plague, or Arsenical poisoning occurred in the district during the year.

VACCINATION.

The number of successful (primary) vaccinations during the year 1902, was as follows :—

Tunstall (Rural) ...	...	220
Milton ...	...	90
Wolstanton ...	...	700
		<hr/>
		1010

Owing to the case of smallpox a large number of people were re-vaccinated.

INFECTIOUS DISEASE.

The following cases have been notified under the Infectious Diseases (Notification) Act, 1889, during the year from the different parishes in the district.

DISEASES.

PARISHES	Smallpox	Scarlet Fever	Typhoid Fever	Diphtheria	Continued Fever	Puerperal Fever	Erysipelas
Goldenhill ...	0	7	10	9	1	1	3
Chell ...	0	0	0	5	0	1	2
Newchapel	0	0	1	9	0	1	2
Wolstanton	1	7	9	7	0	0	5
Chesterton	0	0	5	1	0	1	5
Silverdale ...	0	8	4	0	0	1	11
Milton ...	0	11	3	18	0	0	3
Workhouse	0	0	2	0	0	0	0
Sanatorium	0	2	0	1	0	0	0

1	35	34	50	1	5	31
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The following table will show the number of cases notified during each year from each disease for the last ten years.

	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902			
Smallpox	21	1	0	0	0	0	1			
Scarlet Fever	113	336	261	193	87	183	362	369	102	35
Typhoid Fever	46	49	44	24	53	68	59	55	43	34
Continued Fever	11	12	0	2	2	0	2	0	1	1
Diphtheria	23	17	24	25	15	24	58	175	78	50
Membranous Croup	3	3	12	22	9	2	7	8	1	0
Puerperal Fever	5	3	3	10	6	4	5	6	3	5
Erysipelas	54	44	58	62	53	24	52	33	42	31
	276	465	402	338	225	305	545	646	270	157			

S AT, DEATH DURING YEAR 1902.

JOINED AGES		DEATHS IN LOCALITIES (AT ALL AGES)							Total Deaths in Public Institutions in the District
25 and under 65	65 and upwards	Milton	Chell	Newchapel	Goldenhill	Wolstanton	Chesterton	Silverdale	
...
...	...	1	1	3	3	5	...	...	...
...	...	2	.	...	...	...	...	...	1
...	...	...	...	...	1	...	...	1	...
...	...	2	...	4	...	1	...	..	11
...
...
5	...	1	...	1	2	2	...	...	6
...
2	...	...	1	...	...	1	...	...	1
...
...
...	...	...	...	...	4	1	2	5	1
3	...	..	1	1	...	3	6	1	2
1	...	...	...	...	...	...	1	...	...
1	1	1	...	...	...	2	...	...	...
...
14	1	3	2	1	2	6	4	5	1
3	...	2	4	1	3	4	5	3	3
12	8	2	1	4	2	4	4	3	7
13	18	2	9	5	17	14	9	10	9
9	8	3	4	3	4	8	10	20	5
2	1	...	...	...	...	..	...	3	.
1	...	1	...	...	...	...	...	...	...
4	1	...	2	1	...	2	...	...	1
...
...	...	3	6	..	...	3	3	6	1
3	1	1	...	2	1	1	...	...	...
34	22	3	8	8	7	12	12	11	9
6	...	1	..	1	..	3	2	3	...
5	...	...	1	...	...	4	...	...	...
45	55	14	22	13	36	50	37	42	42
33	116	42	62	48	82	126	95	113	100

SE NOTIFIED DURING THE YEAR 1902.

NOTIFIED IN EACH LOCALITY.					No. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY							
Wolstanton	Chesterton	Silverdale	Sanatorium	Workhouse	Milton	Chell	Newchapel	Goldenhill	Wolstanton	Chesterton	Silverdale	Workhouse
1	...	...	...	...	...	...	...	...	1	...	..	...
...
7	1	...	1	...	...	...	...	2	2	...	...	...
...
5	5	11	...	..	...	...	...	...	...	...	..	...
7	...	8	2	...	4	..	...	2	1	...	3	...
...
9	5	4	...	2	1	..	...	5	3	3	...	...
..
...
...	1	1	..	...	...	...	...	...	...	..	.	...
...
29	12	24	3	2	5	...	...	9	7	3	3	...

I.

Institutions within the District receive
sick and infirm persons from
outside the District

UNION WORKHOUSE,
CHELL.

BRADWELL SANATORIUM,
CHESTERTON.

WHOLE DISTRICT.

DEATHS AT ALL AGES. TOTAL		Deaths in Public Institutions	Deaths of Non-Residents registered in Public Institutions in the District	Deaths of Residents registered in Public Institutions beyond the District	Deaths at all Ages. Nett.	
Number	*Rate				Number	*Rate
	8	9	10	11	12	13
21	22·6					
16	19·1					
14	18·1					
19	19·9					
13	17·3					
2	21·3					
9	20·8					
8	20·2					
6	22·55	103	65	9	720	20·9
8	20·5	113	70	6	714	18·7
7	20·23					
7	16·98	100	72	3	568	15·14

estimated population.

population at all ages	36,970	} At Census of 1901
number of inhabited houses	...	...	7,695
average number of persons per house	...	...	5

WATER SUPPLY :—The Water Supply in the district has been good and abundant during the year.

DRAINAGE :—No drainage work of any importance has been carried out during the year.

The bake-houses and slaughter-houses have been regularly inspected during the year.

REMOVAL OF NIGHT-SOIL AND ASHES :—This might—and ought to be—greatly improved upon. I have had occasion frequently to complain of the removal of night-soil in the middle of the day, or afternoon, instead of morning and night. I therefore ask the Council to put more stringent regulations on the persons who contract to remove the same.

Over-crowding in dwelling houses has been reported in a few cases, and steps have been taken to remedy the same.

I enclose table 1, 3, and 4, and a summary of sanitary work done during the year.

I have the honour to be, GENTLEMEN,

Your obedient Servant,

T. MCKAY YOUNGSON,

M.B., C.M., (Aberd.)

Medical Officer of Health.

Ivy House, Longport, Staffs.
FEBRUARY 28th, 1903.

TABLE 1.—Fo

YEAR	Population estimated to Middle of each Year	BIRTHS		DEATHS UNDER ONE YEAR OF AGE	
		Number	*Rate	Number	*Rate
1	2	3	4	5	6
1892	32994	1327	41·6	225	169
1893	33171	1380	43·0	181	131
1894	33348	1270	39·3	187	147
1895	33525	1135	34·3	214	196
1896	33702	1312	38·4	206	157
1897	33879	1321	39·02	239	181·6
1898	34056	1354	39·7	250	184·6
1899	34233	1335	38·7	238	181·5
1900	34410	1344	39·05	218	162·2
1901	37936	1406	37·06	235	160·7
Averages for years 1892-1901	34125	1318	39·01	219	167·0
1902	37494	1440	38·4	194	134·7

* Rates calculated pe

Area of District in acres
 (exclusive of area } 10392
 covered by water)...

II.

Institutions outside the District
receiving sick and infirm persons
from the District

WYWOOD HOSPITAL,
BURSLEM.

NORTH STAFFORD
INFIRMARY.

TABLE III.—CASES OF INFECTIOUS D

NOTIFIABLE DISEASE	CASES NOTIFIED IN WHOLE DISTRICT							TOTAL C	
	At all Ages	Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards	Milton	Chell
Small-pox	1	...	...	...	...	1	...	...	...
Cholera ... ..	...	...	...	...	...	..	...	...	...
Diphtheria	50	2	16	17	6	7	2	18	5
Membranous Croup ... ..	...	...	...	...	...	...	...	...	...
Erysipelas	31	...	1	2	8	20	...	3	2
Scarlet Fever	35	1	12	16	4	2	...	11	...
Typhus Fever ... ..	...	...	...	..	...	...	...	...	...
Enteric Fever	34	...	..	7	7	20	...	3	...
Relapsing Fever ... ..	...	...	...	..	...	..	...	...	..
Continued Fever	1	...	...	1	...	...	...	..	...
Puerperal Fever	5	..	...	...	1	4	..	...	1
Plague ... ..	...	..	..	...	...	...	...	..	...
Totals	157	3	29	43	26	54	2	35	8

TABLE IV.—CAUSES OF, AND

CAUSES OF DEATH						DEATHS IN WHOLE DISTRICT			
						All ages	Under 1	1 and under 5	5 and under 15
Small-pox	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	13	5	7	1
Scarlet Fever	...	...	...	...	...	2	1	...	1
Whooping Cough	...	...	...	...	...	2	1	1	...
Diphtheria and Membranous Croup	...	...	...	...	...	7	...	5	2
Croup	...	...	...	...	...	...	...	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...
Enteric Fever	...	...	...	...	...	6	...	...	...
Other Continued Fever	...	...	...	...	...	...	...	...	...
Epidemic Influenza	...	...	...	...	...	2	...	...	...
Cholera	...	...	...	...	...	...	...	...	...
Plague	...	...	...	...	...	...	...	...	...
Diarrhœa	...	...	...	...	...	12	6	6	...
Enteritis	...	...	...	...	...	12	8	1	...
Puerperal Fever	...	...	...	...	...	1	...	...	...
Erysipelas	...	...	...	...	...	3	...	...	...
Other Septic Diseases	...	...	...	...	...	...	...	...	...
Phthisis	...	...	...	...	...	23	2	2	...
Other Tubercular Diseases	...	...	...	...	...	22	11	4	3
Cancer, Malignant Disease	...	...	...	...	...	20	...	...	...
Bronchitis	...	...	...	...	...	66	26	8	...
Pneumonia	...	...	...	...	...	52	20	8	2
Pleurisy	...	...	...	...	...	3	...	...	...
Other Diseases of Respiratory Organs	...	...	...	...	...	1	...	...	...
Alcoholism, Cirrhosis of Liver	...	...	...	...	...	5	...	...	...
Venereal Diseases	...	...	...	...	...	...	...	...	...
Premature Birth	...	...	...	...	...	21	21	...	...
Diseases and Accidents of Parturition	...	...	...	...	...	5	...	...	...
Heart Diseases	...	...	...	...	...	61	...	...	1
Accidents	...	...	...	...	...	10	1	1	1
Suicides	...	...	...	...	...	5	...	...	...
All other causes	...	...	...	...	...	214	91	11	7
All causes	...	...	...	...	...	568	193	54	18

Wolstanton Rural

BOUND IN
BACKWARDS.

START AT
OTHER END.